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PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/998,137	12/03/2001	Thierry Gandelheid	032880-056	4571	
7	590 03/03/2003				
Allen R. Baum BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404			EXAMINER		
			THERKORN, ERNEST G		
Alexandria, VA	A 22313-1404		ART UNIT	PAPER NUMBER	
			1723		
			DATE MAILED: 03/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Office Action Summary	09/998,137	GAN	DELHEIR				
	·	Examiner TH ERKO	لا بم	1723				
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mailing	sions of time may be available under the provisions of 37 CFR 1.136 (a). In g date of this communication.				TOTT THE			
	period for reply specified above is less than thirty (30) days, a reply within t period for reply is specified above, the maximum statutory period will apply				ation.			
	to reply within the set or extended period for reply will, by statute, cause to apply received by the Office later than three months after the mailing date of							
earned	patent term adjustment. See 37 CFR 1.704(b).	·	,	,				
Status 1)X	Responsive to communication(s) filed on Fet	8 = 0.00	Fo L 14	2003				
<i>'</i>					· · ·			
2a)	•							
3):	Since this application is in condition for allowance closed in accordance with the practice under Ex pa				nerits is			
	tion of Claims							
•								
4	4a) Of the above, claim(s) $30-34$		is/a	re withdrawn fron	n consideration.			
5)	Claim(s)		is/are allowed.					
6)	Claim(s) 1-29 and 35-38	<u> </u>	is/are rejected.					
	Claim(s)		is/are objected to.					
	Claims			ction and/or electi	on requirement.			
Applica	ation Papers							
9) 🗔	The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are	e a) 🗌 accepted or	b)□ object	ed to by the Exam	niner.			
	Applicant may not request that any objection to the o	drawing(s) be held in a	ibeyance. Se	ee 37 CFR 1.85(a).				
11).	The proposed drawing correction filed on	is: a) 🗆	approved	b) disapproved	by the Examiner.			
	If approved, corrected drawings are required in reply	to this Office action.						
12)	The oath or declaration is objected to by the Exam	iner.						
Priority	under 35 U.S.C. §§ 119 and 120							
13)	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.	C. § 119(a)-(d) or (f).				
a) [All b) \square Some* c) \square None of:							
	1. \square Certified copies of the priority documents have	ve been received.						
	2. \square Certified copies of the priority documents have	ve been received in A	Application I	No	·			
	3. Copies of the certified copies of the priority dapplication from the International Bure	eau (PCT Rule 17.2(a	1)).	n this National Sta	ge			
*S	ee the attached detailed Office action for a list of th	e certified copies no	t received.					
14) 🔲	Acknowledgement is made of a claim for domestic	priority under 35 U.	S.C. § 119	(e).				
_	The translation of the foreign language provisions							
15)	Acknowledgement is made of a claim for domestic	priority under 35 U.	S.C. §§ 12	0 and/or 121.				
Attachm								
	otice of References Cited (PTO-892)	4) Interview Summary (
	otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(s) 46. 40	5) Notice of Informal Pa	atent Application	(P10-152)				
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Application/Control Number: 09/998,137 Page 2

Art Unit: 1723

Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. "predicting a retention time of the compound of interest from a preparative scale HPLC column" renders the claim indefinite

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 2 1(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/998,137

Page 3

Art Unit: 1723

Claims 1-29 and 35-38 are rejected under 35 U.S.C. 102(A and/or E) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Collins (WO 01/90739). The claims are considered to read on Collins (WO 01/90739). However, if a difference exists between the claims and Collins (WO 01/90739), it would reside in optimizing the steps of Collins (WO 01/90739). It would have been obvious to optimize the steps of Collins (WO 01/90739) to enhance separation.

Claims 2, 3, 9, 10, 11, 14, 23, 24, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (WO 01/90739) in view of Kibbey (U.S. Patent No. 5,670,054). At best, the claims differ from Collins (WO 01/90739) in the clarity of disclosing a UV detector and that a mass spectrometer identifies mass. Collins (WO 01/90739) (pages 24 and 25) discloses use of a detector in conjunction with a fraction collector for the preparative chromatography. Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 51-53) discloses a UV detector is used in conjunction with a fraction collector for directing flow. Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 44-45) discloses that a mass spectrometer identifies mass. It would have been obvious that Collins (WO 01/90739) discloses a UV detector and that his mass spectrometer identifies mass because Collins (WO 01/90739) (pages 24 and 25) itself discloses use of a detector in conjunction with a fraction collector for the preparative chromatography and because Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 51-53) discloses a UV detector is used in conjunction with a fraction collector for directing flow and because Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 44-45) discloses that a mass spectrometer identifies mass.

Application/Control Number: 09/998,137 Page 4

Art Unit: 1723

Claims 7, 8, 21, 37, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (WO 01/90739) in view of Afeyan (U.S. Patent No. 6,344,172). At best, the claims differ from Collins (WO 01/90739) in reciting use of an artificial neural network. Afeyan (U.S. Patent No. 6,344,172) (column 14, lines 13-45) discloses use of an artificial intelligence program recognizes patterns and allows for the elimination of manual or piecemeal preparatory steps. It would have been obvious to use artificial intelligence in Collins (WO 01/90739) because Afeyan (U.S. Patent No. 6,344,172) (column 14, lines 13-45) discloses use of an artificial intelligence program recognizes patterns and allows for the elimination of manual or piecemeal preparatory steps.

Claims 17-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481). At best, the claims differ from Collins (WO 01/90739) in reciting combining streams. Zambias (U.S. Patent No. 5,766,481) (column 1, line 66-column 2, line 40; column 11, line 66-column 12, line 11; and column 12, lines 44-62) discloses that combining streams allows processing a much larger number of compounds with the same equipment. It would have been obvious to combine streams in Collins (WO 01/90739) because Zambias (U.S. Patent No. 5,766,481) (column 1, line 66-column 2, line 40; column 11, line 66-column 12, line 11; and column 12, lines 44-62) discloses that combining streams allows processing a much larger number of compounds with the same equipment.

Claims 23, 24, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) as applied to claims 17-

Page 5

Application/Control Number: 09/998,137

Art Unit: 1723

29 above, and further in view of Kibbey (U.S. Patent No. 5,670,054). At best, the claims differ from Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) in the clarity of disclosing a UV detector and that a mass spectrometer identifies mass. Collins (WO 01/90739) (pages 24 and 25) discloses use of a detector in conjunction with a fraction collector for the preparative chromatography. Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 51-53) discloses a UV detector is used in conjunction with a fraction collector for directing flow. Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 44-45) discloses that a mass spectrometer identifies mass. It would have been obvious that Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) discloses a UV detector and that his mass spectrometer identifies mass because Collins (WO 01/90739) (pages 24 and 25) itself discloses use of a detector in conjunction with a fraction collector for the preparative chromatography and because Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 51-53) discloses a UV detector is used in conjunction with a fraction collector for directing flow and because Kibbey (U.S. Patent No. 5,670,054) (column 7, lines 44-45) discloses that a mass spectrometer identifies mass.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) as applied to claims 17-29 above, and further in view of Afeyan (U.S. Patent No. 6,344,172). At best, the claim differs from Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) in reciting use of an artificial neural network. Afeyan (U.S. Patent No. 6,344,172) (column 14, lines 13-45) discloses use of an artificial intelligence program recognizes patterns and allows for the elimination of manual or

Application/Control Number: 09/998,137 Page 6

Art Unit: 1723

piecemeal preparatory steps. It would have been obvious to use artificial intelligence in Collins (WO 01/90739) in view of Zambias (U.S. Patent No. 5,766,481) because Afeyan (U.S. Patent No. 6,344,172) (column 14, lines 13-45) discloses use of an artificial intelligence program recognizes patterns and allows for the elimination of manual or piecemeal preparatory steps.

The remarks urge that examining the species of claims 30-34 would not be a serious burden on the examiner. However, the examination of the additional invention would require searching the additional subclasses of Class 210, subclasses 658 and 198.3. The additional search and different issues of patentability would be an enormous burden on the examiner. As such, the election of species has been reconsidered, deemed proper, and made final for the reasons of record.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (703) 308-0362.

Ernest G. Therkorn Primary Examiner Art Unit 1723

EGT/12 February 27, 2003